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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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CARR LLP 670 FOUNDERS SQUARE 900 JACKSON STREET DALLAS, TX 75202			KIM, PAUL	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/780,007	Applicant(s) CHOWDHURY ET AL.	
	Examiner PAUL KIM	Art Unit 2169	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 August 2008.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-6 and 15-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-6 and 15-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This Office action is responsive to the following communication: Amendment filed on 20 August 2008.
2. Claims 1-6 and 15-20 are pending and present for examination.

Response to Amendment

3. Claims 1, 15, and 20 have been amended.
4. No claims have been added.
5. No claims have been cancelled.

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. **Claims 1-3, 15, and 20** are rejected under 35 U.S.C. 103(a) as being unpatentable over Chu et al (U.S. Patent No. 6,970,924, hereinafter referred to as CHU), filed on 23 February 1999, and issued on 29 November 2005, in view of Kelley et al, filed on 31 July 2002, published on 5 February 2004, and issued on 29 May 2007, and in further view of Barth et al (U.S. Patent No. 7,349,894, hereinafter referred to as BARTH), filed on 30 July 2004, claiming provisional priority to 22 March 2000, published on 13 January 2005, and issued on 25 March 2008.
8. **As per independent claims 1 and 15**, CHU, in combination with KELLEY and BARTH, discloses:

A method of determining an Internet Protocol (IP) address of an application server of a serving network, comprising:

Art Unit: 2161

receiving an IP address by a user equipment (UE) {See CHU, C16:L7-32, wherein this reads over "[p]erforming a reverse DNS lookup on each IP address"};

performing a reverse domain name query by the UE as a function of the received IP address {See CHU, C16:L7-32, wherein this reads over "[p]erforming a reverse DNS lookup on each IP address"};

receiving, by the UE, the reverse domain query comprising the visited serving network domain name {See CHU, C16:L7-32, wherein this reads over "[p]erforming a reverse DNS lookup on each IP address returns strings representing host names for links (e.g. 208.218.140.5 may map to inverse-gwl.alter.net)"};

extracting, by the UE, the serving network domain name from the received reverse domain name query {See CHU, C16:L7-32, wherein this reads over "a router with links names 'host1.inverse.net' and 'host2.alter.net' may be situated on the administrative boundary between 'inverse.net' and 'alter.net'" and "[a] central server, such as the server at whois.internic.net, can be queries for the owner of a given IP address. Whois requests return domain names"};

generating, by the UE, an application server name {See BARTH, C11:L19-56, wherein this reads over "a server name is constructed dynamically"};

appending, by the UE, the extracted serving network domain name to the application server name {See CHU, C16:L7-32, wherein this reads over "a router with links names 'host1.inverse.net' and 'host2.alter.net'"}, thereby generating a domain-specific application server name {See KELLEY, Figure 3; and C7:L31-14, wherein this reads over "the reference . . . may be utilized to dynamically generate a canonical name"};

performing, by the UE, a domain name query as a function of the domain-specific application server name {See CHU, C16:L7-32, wherein this reads over "a router with links names 'host1.inverse.net' and 'host2.alter.net' may be situated on the administrative boundary between 'inverse.net' and 'alter.net'" and "[a] central server, such as the server at whois.internic.net, can be queries for the owner of a given IP address. Whois requests return domain names"}; and

receiving, by the UE, a second IP address as a function of the domain-specific application server name {See CHU, C16:L7-32, wherein this reads over "[p]erforming a reverse DNS lookup on each IP address returns strings representing host names for links (e.g. 208.218.140.5 may map to inverse-gwl.alter.net)".

While CHU may fail to expressly disclose the generation of an application server name, BARTH discloses a method wherein the server name is constructed dynamically by the client (i.e. the UE). Accordingly, the modification of CHU by BARTH would lead to a combination wherein application server name may be generated such that it may be appended to a domain name. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the above invention suggested by CHU by combining it with the invention disclosed by BARTH.

Art Unit: 2161

While CHU may fail to expressly disclose the generation of a domain-specific application server name, KELLEY discloses a method wherein parsed pieces of a reference may be used to dynamically generate a canonical name. Accordingly, the modification of CHU by KELLEY would lead to a combination wherein the derived serving network domain name information may be appended dynamically to generate a domain-specific application server name. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the above invention suggested by CHU by combining it with the invention disclosed by KELLEY.

One of ordinary skill in the art would have been motivated to do this modification so that the domain-specific application server name may be used by the domain name query to return an IP address of the application server.

9. **As per dependent claim 2**, CHU, in combination with KELLEY and BARTH, discloses:

The method of claim 1, wherein the receiving an IP address comprises receiving an IP address for the UE {See CHU, C16:L7-32, wherein this reads over "[b]oundary routers" and "each IP address"}.

10. **As per dependent claim 3**, it would be inherent for the step of receiving an IP address comprised of receiving an IP address associated with a device providing an IP address to the serving network since without the IP address, none of the subsequent steps of the claimed invention would be possible.

11. **As per independent claim 20**, CHU, in combination with KELLEY and BARTH, discloses:

A system for determining an Internet Protocol (IP) address of an application server of a serving network, comprising:

A user equipment (UE) in communication with an access gateway of the serving network, wherein the UE is configured to:

request an IP address for the UE from the serving network;

receive the requested IP address associated with the UE {See CHU, C16:L7-32, wherein this reads over "[p]erforming a reverse DNS lookup on each IP address"};

perform a reverse domain name query as a function of the received IP address {See CHU, C16:L7-32, wherein this reads over "[p]erforming a reverse DNS lookup on each IP address"};

Art Unit: 2161

receive a response to the reverse domain name query {See CHU, C16:L7-32, wherein this reads over "[p]erforming a reverse DNS lookup on each IP address returns strings representing host names for links (e.g. 208.218.140.5 may map to inverse-gwl.alter.net)"};

extract the serving network domain name information from the reverse domain name query {See CHU, C16:L7-32, wherein this reads over "a router with links names 'host1.inverse.net' and 'host2.alter.net' may be situated on the administrative boundary between 'inverse.net' and 'alter.net'" and "[a] central server, such as the server at whois.internic.net, can be queries for the owner of a given IP address. Whois requests return domain names"};

generate an application server name {See BARTH, C11:L19-56, wherein this reads over "a server name is constructed dynamically"};

append the derived serving network domain name information the application server name, thereby generating a domain-specific application server name {See CHU, C16:L7-32, wherein this reads over "a router with links names 'host1.inverse.net' and 'host2.alter.net'"};

perform a domain name query as a function of the domain-specific application server name {See CHU, C16:L7-32, wherein this reads over "a router with links names 'host1.inverse.net' and 'host2.alter.net' may be situated on the administrative boundary between 'inverse.net' and 'alter.net'" and "[a] central server, such as the server at whois.internic.net, can be queries for the owner of a given IP address. Whois requests return domain names"}; and

receive a second IP address as a function of the domain-specific application server name {See CHU, C16:L7-32, wherein this reads over "[p]erforming a reverse DNS lookup on each IP address returns strings representing host names for links (e.g. 208.218.140.5 may map to inverse-gwl.alter.net)"}; and

store the second IP address {See CHU, C16:L7-32, wherein this reads over "[p]erforming a reverse DNS lookup on each IP address returns strings representing host names for links (e.g. 208.218.140.5 may map to inverse-gwl.alter.net)"}.

The examiner notes that it would be inherent for the claimed invention to comprise of logic to extract a domain name from the reverse domain name query wherein the invention is configured to perform reverse domain name queries. That is, it is necessary to the claimed invention that the system comprise of logic wherein said logic is used to perform the steps in the extraction of a domain name from a reverse domain name query.

Additionally, while CHU may fail to expressly disclose the generation of a domain-specific application server name, KELLEY disclose a method wherein parsed pieces of a reference may be used to dynamically generate a canonical name. Accordingly, the modification of CHU by KELLEY would lead to a combination wherein the derived serving network domain name information may be appended

Art Unit: 2161

dynamically to generate a domain-specific application server name. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the above invention suggested by CHU by combining it with the invention disclosed by KELLEY.

One of ordinary skill in the art would have been motivated to do this modification so that the domain-specific application server name may be used by the domain name query to return an IP address of the application server.

12. **Claims 4-6 and 16-19** are rejected under 35 U.S.C. 103(a) as being unpatentable over CHU, in view of KELLEY and BARTH, and in further view of Official Notice.

13. **As per dependent claims 4 and 19**, the Examiner takes Official Notice that it would have been obvious to one of ordinary skill in the art at the time the invention was made to transmit an IP address of a gateway to the UE since a gateway is well-known and commonly-used within the art to connect two IP-based networks.

14. **As per dependent claim 5**, the Examiner takes Official Notice that it would have been obvious to one of ordinary skill in the art at the time the invention was made to derive information from a Uniform Resource Identifier (URI), since a URI is well-known and commonly-used within the art to identify a resource.

15. **As per dependent claim 6**, the Examiner takes Official Notice that it would have been obvious to one of ordinary skill in the art at the time the invention was made to have the application server be a Proxy Call Session Control Function (P-CSCF) server name since a P-CSCF server is simply another type of application server available.

16. **As per dependent claim 16**, the Examiner takes Official Notice that it would have been obvious to one of ordinary skill in the art at the time the invention was made for the serving network to have a URI since a URI is commonly-used and well-known in the art to be used as an identifier of network resources.

17. **As per dependent claim 17**, CHU, in combination with KELLEY, BARTH, and Official Notice, discloses:

Art Unit: 2161

The method of claim 1, wherein the step of receiving an IP address further comprises receiving an IP address for a user equipment (UE) {See CHU, C16:L7-32, wherein this reads over "[b]oundary routers" and "each IP address"}.

18. **As per dependent claim 18**, it would be inherent for the step of receiving an IP address comprised of receiving an IP address associated with a device providing an IP address to the serving network since without the IP address, none of the subsequent steps of the claimed invention would be possible.

Response to Arguments

19. Applicant's arguments with respect to claim rejections under 35 U.S.C. 103 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

20. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

21. Any inquiry concerning this communication or earlier communications from the examiner should be directed to PAUL KIM whose telephone number is (571)272-2737. The examiner can normally be reached on M-F, 9am - 5pm.

Art Unit: 2161

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Apu Mofiz can be reached on (571) 272-4080. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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